Pending Claims

1-43. (*canceled*)

44. (*Previously submitted*) A medium for culturing mammalian cells comprising mannose, fructose, galactose, and N-acetylmannosamine.

45. (*Previously submitted*) The medium of claim 44, wherein the medium is serum free.

46. (*Previously submitted*) The medium of claim 44, wherein the mammalian cells are CHO cells.

47. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

48. (*Previously submitted*) The medium of claim 44, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

49. (*Previously submitted*) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 44.

50. (*Previously submitted*) The method of claim 49, wherein the medium is serum free.

51. (*Previously submitted*) The method of claim 49, wherein the cells are CHO cells.

52. (*Previously submitted*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

53. (*Previously submitted*) The method of claim 49, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

54. (*Previously submitted*) The method of claim 49, wherein the protein is a secreted, recombinant protein.

55. (*Previously submitted*) The method of claim 49, wherein the cells are cultured at a temperature from about 29°C to about 36°C.

56. (*Previously submitted*) A medium for culturing mammalian cells comprising galactose and N-acetylmannosamine.

57. (*Previously submitted*) The medium of claim 56, wherein the medium is serum free.

58. (*Previously submitted*) The medium of claim 56, wherein the mammalian cells are CHO cells.

59. (*Previously submitted*) The medium of claim 56, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

60. (*Previously submitted*) The medium of claim 56, wherein the concentration of galactose is from about 1.5 mM to about 4.5 mM.

61. (*Previously submitted*) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 56.

62. (*Previously submitted*) The method of claim 61, wherein the medium is serum free.

63. (*Previously submitted*) The method of claim 61, wherein the cells are CHO cells.

64. (*Previously submitted*) The method of claim 61, wherein the concentration of galactose, is from about 1 mM to about 10 mM and the concentration of N-acetylmannosamine is at least about 0.8 mM.

65. (*Previously submitted*) The method of claim 61, wherein the concentration of galactose, is from about 1.5 mM to about 4.5 mM.

66. (*Previously submitted*) The method of claim 61, wherein the protein is a secreted, recombinant protein.

67. (*Previously submitted*) The method of claim 61, wherein the cells are cultured at a temperature from about 29°C to about 36°C.

68. (*Previously submitted*) A medium for culturing mammalian cells comprising mannose, fructose, and galactose.

69. (*Previously submitted*) The medium of claim 68, wherein the medium is serum free.

70. (*Previously submitted*) The medium of claim 68, wherein the mammalian cells are CHO cells.

71. (*Previously submitted*) The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.

72. (*Previously submitted*) The medium of claim 68, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

73. (*Previously submitted*) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in the medium of claim 68.

74. (*Previously submitted*) The method of claim 73, wherein the medium is serum free.

75. (*Previously submitted*) The method of claim 73, wherein the cells are CHO cells.

76. (*Previously submitted*) The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1 mM to about 10 mM.

77. (*Previously submitted*) The method of claim 73, wherein the concentrations of galactose, mannose, and fructose are each from about 1.5 mM to about 4.5 mM.

78. (*Previously submitted*) The method of claim 73, wherein the protein is a secreted, recombinant protein.

79. (*Previously submitted*) The method of claim 73, wherein the cells are cultured at a temperature from about 29°C to about 36°C.

80. (*Previously submitted*) A medium for culturing mammalian cells in suspension comprising fructose and galactose.

81. (*Previously submitted*) The medium of claim 80, wherein the medium is serum free.

82. (*Previously submitted*) The medium of claim 80, wherein the mammalian cells are CHO cells.

83. (*Previously submitted*) The medium of claim 80, wherein the concentrations of galactose, and fructose are each from about 1 mM to about 10mM.

84. (*Previously submitted*) The medium of claim 83, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.

85. (*Previously submitted*) A method for increasing the sialic acid content of a protein produced by mammalian cells comprising culturing the cells in suspension in the medium of claim 80.

86. (*Previously submitted*) The method of claim 85, wherein the medium is serum free.

87. (*Previously submitted*) The method of claim 85, wherein the cells are CHO cells.

88. (*Previously submitted*) The method of claim 85, wherein the concentrations of galactose and fructose are each from about 1 mM to about 10 mM.

89. (*Previously submitted*) The method of claim 88, wherein the concentrations of galactose and fructose are each from about 1.5 mM to about 4.5 mM.

90. (*Previously submitted*) The method of claim 85, wherein the protein is a secreted, recombinant protein.

91. (*Previously submitted*) The method of claim 85, wherein the cells are cultured at a temperature from about 29°C to about 36°C.